



700 Nicholas Blvd. Suite 403 | Elk Grove Village, IL 60007  
847.952.9362 | [www.bancroft-ae.com](http://www.bancroft-ae.com)

**September 21, 2015**      ~~**MARCH 02, 2015**~~

## LOCATION MAP



## BID DOCUMENT SET

ISSUED FOR BID AND CONSTRUCTION





1. FLAT "WAFFLE BOTTOM FLAT PAD" CONCRETE PAD SHALL BE BY CONCAST FIBERCRETE OR APPROVE EQUAL.  
SIZE: 13'-0"X 4'-4"  
TOLERANCE: SHALL NOT EXCEED  $\pm 1/8"$ .  
MANUFACTURER'S DESIGN DIMENSIONS AND WEIGHT MUST BE APPROVED BY ARCHITECT AND OWNER, PRIOR TO FABRICATION.  
VERIFY SIZE OF THE OPENING IN THE CONCRETE BY THE EQUIPMENT MANUF.  
THE FLAT PAD SHALL HAVE A RIGID, FLAT, AND STABLE TOP SURFACE. IF REQUIRED, THE FLAT PAD SHALL BE MANUFACTURED WITH EQUIPMENT BOLT-DOWN ACCOMMODATIONS.  
THE PRECAST COMPONENT ARE DESIGNED TO CONFORM TO REQUIREMENTS STATED IN ASTM C857-07 "PRACTICE FOR MINIMUM UTILITY STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES."  
THE PAD SHALL OBTAIN A MINIMUM COMPRESSIVE STRENGTH OF 7500 PSI AT 28 DAYS OF AGE.  
STEEL REINFORCING WIRES SHALL CONFORM TO ASTM A496 AND A615.  
THE PAD MUST NOT WARP, RUST, BE UV DEGRADABLE, OR SUSTAIN COMBUSTION.  
REFER TO DETAIL 1/THIS SHEET FOR MORE INSTALLATION DETAIL.
2. PAD TOP FINISHES: CLEAR EPOXY SEALER.
3. CONTRACTOR RESPONSIBLE TO PROVIDE CONSTRUCTION BARRICADES AND TRAFFIC SIGNER.
4. REMOVE AND CAP EXISTING SPRINKLER HEAD DURING CONSTRUCTION PHASE. REPLACE SPRINKLER HEAD AND TEST PER MANUFACTURE REQUIREMENT .
5. CONTRACTOR TO VERIFY PROPER OPERATION OF EXISTING LOUVER AFTER EACH PHASE.

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**SCALE: 1"=10'-0"**

Office of  
Construction  
and Facilities  
Management

 Department of  
Veterans Affairs





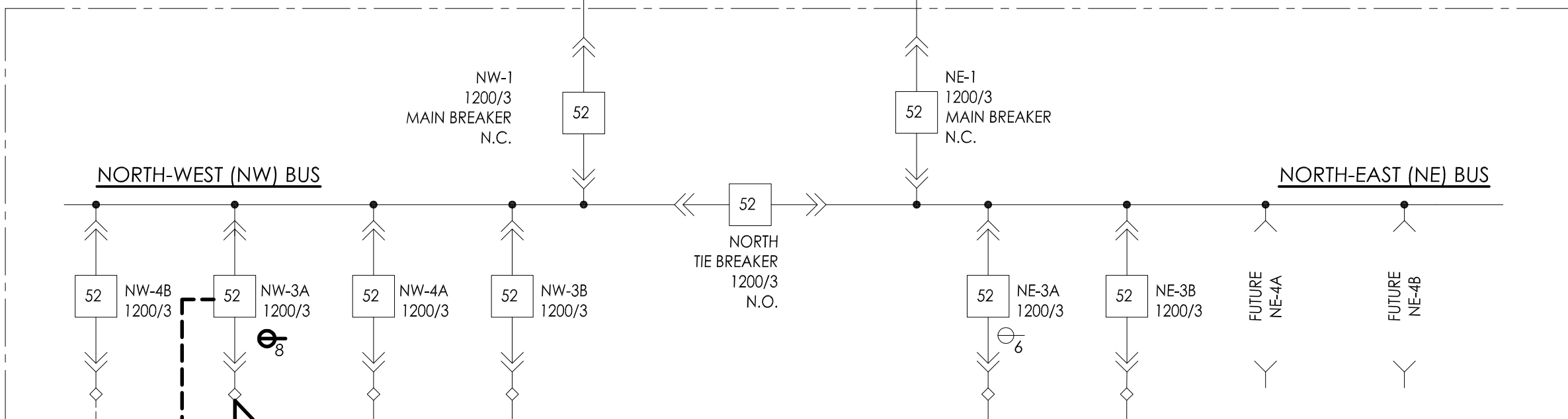




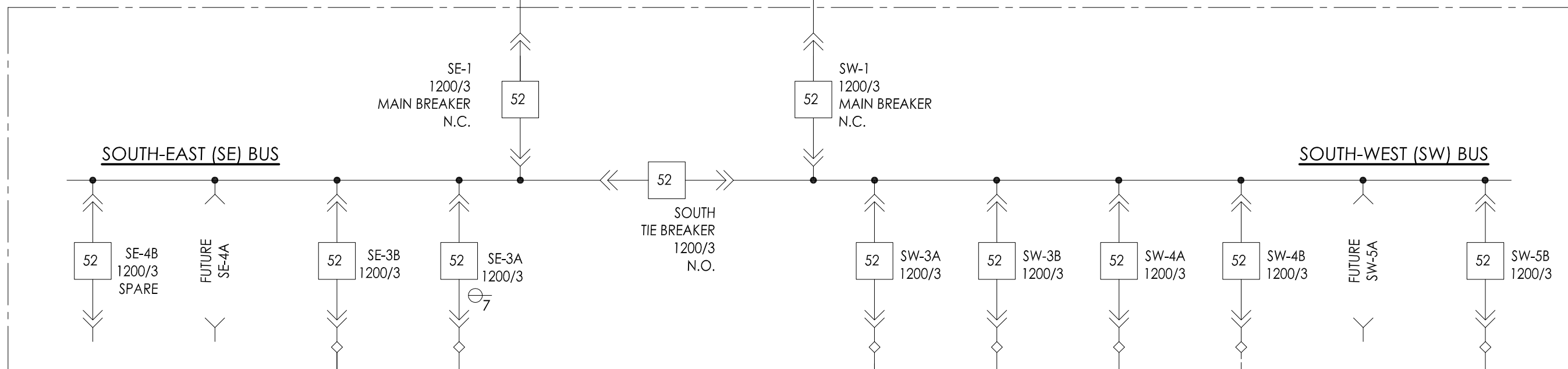


8/26/2014  
E701.3 Partial Online Diagram - Phase 3.dwg  
9-16-15 01:21:38 PM  
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one eighth inch = one foot  
one quarter inch = one foot  
three eighths inch = one foot  
three quarters inch = one foot  
one inch = one foot  
one and one half inches = one foot  
three inches = one foot  
one eighth inch = one foot  
one quarter inch = one foot  
three eighths inch = one foot  
three quarters inch = one foot  
one inch = one foot  
one and one half inches = one foot  
three inches = one foot

**BUILDING 115**  
**MV METAL-CLAD SWITCHGEAR**  
**NORTH - LINEUP**  
13.2kV, 1200A, 3Ø, 3W, Cu



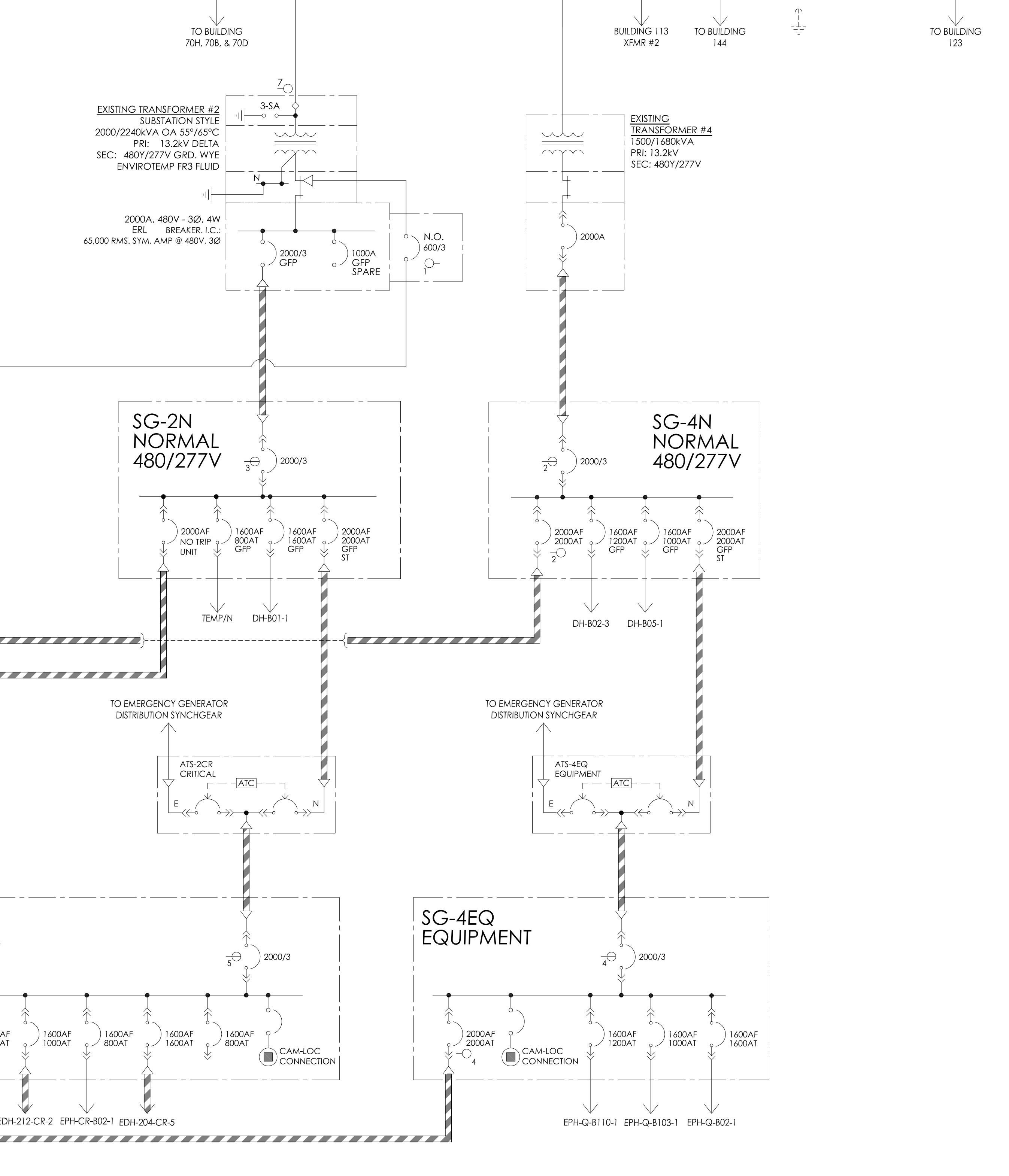
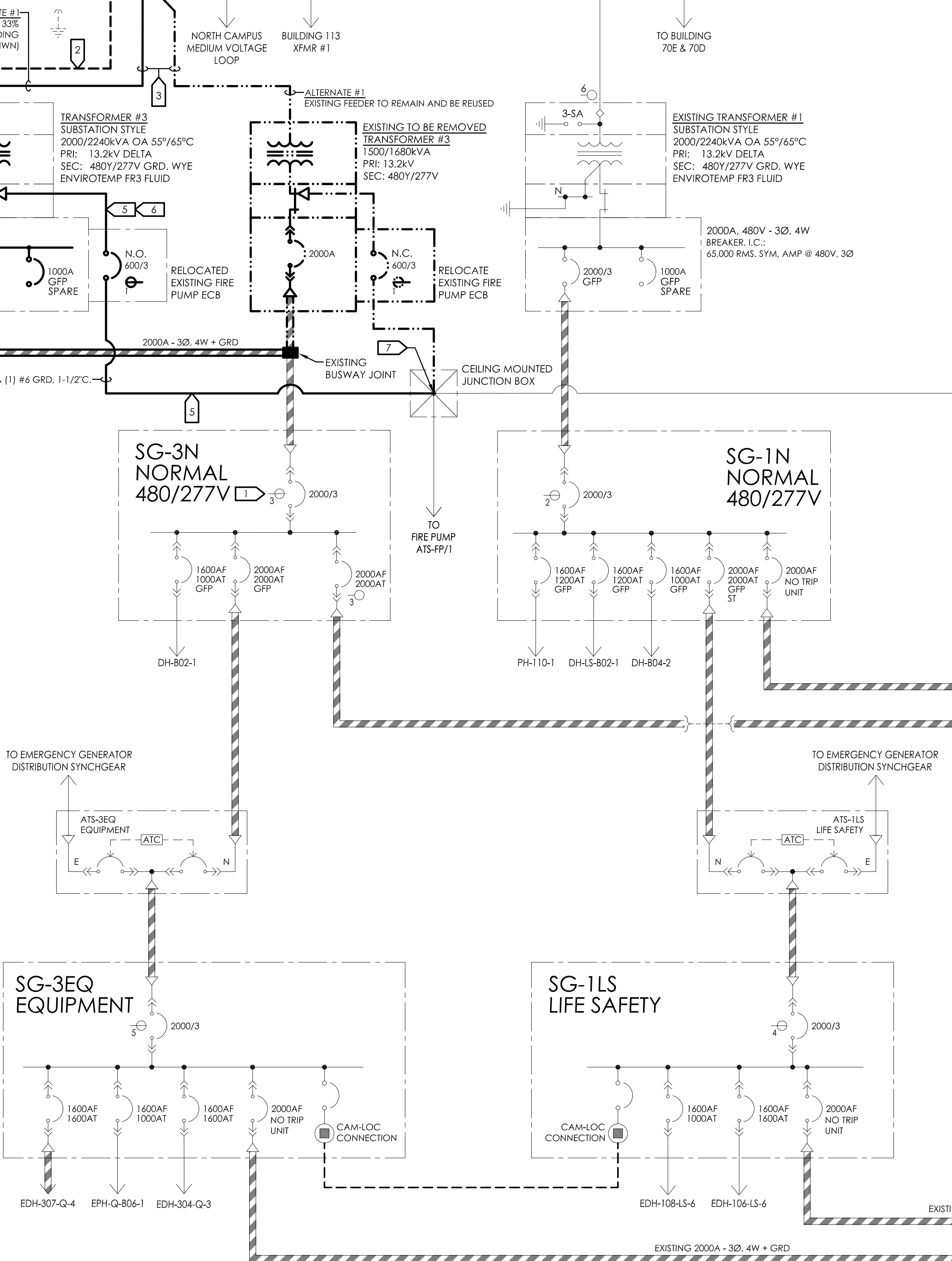
**BUILDING 115**  
**MV METAL-CLAD SWITCHGEAR**  
**SOUTH - LINEUP**  
13.2kV, 1200A, 3Ø, 3W, Cu



- GENERAL NOTES:**
- INSTALLATION OF NEW TRANSFORMER SHALL NOT TAKE PLACE UNTIL AFTER THE LOAD HAS BEEN BACKFEED AND THE EXISTING TRANSFORMER HAS BEEN REMOVED.
  - AIR TERMINAL CABINET ON THE PRIMARY SIDE OF THE TRANSFORMER SHALL BE KEY INTERLOCKED WITH UPSTREAM MV CIRCUIT BREAKER, TO PREVENT OPENING CABINET WHILE ENERGIZED.
- REFERENCED NOTES:**
- GROUND FAULT PROTECTION SHALL BE DISABLED ON MAIN CIRCUIT BREAKER.
  - CONTROL WIRE FOR SUDDEN HIGH PRESSURE RELAY SWITCH SHALL BE ROUTED FROM TRANSFORMER ROOM TO BUILDING 115; THROUGH BUILDING 111, DUCTBANK #2, BUILDING 113 AND DUCTBANK #4. REFER TO SITE PLAN E5101 FOR REFERENCE.
  - ALTERNATE #1 SHALL REUSE EXISTING MV FEEDER IN LIEU OF PROVIDING NEW MV FEEDER. PROVIDE NEW TERMINATIONS AS REQUIRED ON EXISTING FEEDER FOR CONNECTION TO NEW TRANSFORMER.
  - PROVIDE (3) DISTRIBUTION CLASS, 10kV NOMINAL, 8.4kV MCOV, SURGE ARRESTERS.
  - PROVIDE 2-HOUR RATED ASSEMBLY FOR FIRE PUMP FEEDER IN 1-1/2" RIGID CONDUIT.
  - ROUTE RIGID CONDUIT FROM TRANSFORMER SECONDARY THROAT CONNECTION TO RELOCATED EXISTING FIRE PUMP CIRCUIT BREAKER.
  - PROVIDE IRREVERSIBLE HIGH COMPRESSION CRIMPED AND INSULATED CONNECTION.

- GENERAL PHASING CONDITIONS:**
- THE CONTRACTOR SHALL REVIEW THE INTENDED PHASING OF WORK AND ASSESS THE IMPACT ON CONSTRUCTABILITY, SAFETY CONCERNS, AND OUTAGE DURATIONS.
  - THE CONTRACTOR SHALL IDENTIFY ANY SITE CONDITIONS OR DESIGN CONDITIONS WHICH MAY NEGATIVELY EFFECT PHASING AND ITS IMPACT. ANY CONCERNS SHALL BE COMMUNICATED IN WRITING AS A REQUEST FOR INFORMATION.
  - THE CONTRACTOR SHALL NOT PERFORM ANY WORK ON ENERGIZED EQUIPMENT AND SHALL BE IN COMPLIANCE WITH NFPA 70E "ELECTRICAL SAFETY IN THE WORKPLACE".
  - ALL ENERGIZED EQUIPMENT AFFECTING THE SAFE INSTALLATION OF CABLES AND CONNECTIONS SHALL BE SHUT-OUT, LOCKED-OUT AND TAGGED IN COMPLIANCE WITH NFPA 70E.
  - ALL WORK REQUIRING SHUT-DOWN OF ENERGIZED EQUIPMENT SHALL BE PERFORMED IN MAXIMUM 4 HOUR OUTAGES.
  - THE CONTRACTOR SHALL ATTEND A PLANNING MEETING WITH THE VA RESIDENT ENGINEER 10 WORKING DAYS IN ADVANCE OF EACH OUTAGE TO DISCUSS AND DOCUMENT THE FOLLOWING:
    - WHAT LOADS WILL BE AFFECTED BY THE OUTAGE.
    - THE ANTICIPATED LENGTH OF EACH OUTAGE.
    - ANY SPECIAL NEEDS FOR TEMPORARY POWER.
    - CONTINGENCY PLANS IF AN UNPLANNED OUTAGE WERE TO OCCUR AT THE SAME TIME AS THE PLANNED OUTAGE.
    - OTHER MAINTENANCE WORK BEING PERFORMED BY THE VA DURING THE OUTAGE AND ITS IMPACT ON THE OUTAGE DURATION.
  - THE CONTRACTOR SHALL ATTEND AN OUTAGE STATUS MEETING SCHEDULED BY THE VA JUST PRIOR TO THE OUTAGE TO DISCUSS COMMUNICATIONS AND AUTHORIZATIONS AND ANY OTHER SPECIAL NEEDS.
  - THE CONTRACTOR SHALL ASSUME ALL OUTAGES WILL OCCUR AT PREMIUM TIME DURING WEEKENDS AND EVENINGS.
  - OSHA CONFINED SPACE PROCEDURES SHALL BE FOLLOWED WHENEVER WORK IS OCCURRING IN CABLE VAULTS AND MANHOLES.
  - CONTRACTORS SHALL BE RESPONSIBLE FOR LOCK-OUT AND TAG-OUT PROCEDURES FOR THE WORK THEY PERFORM AND SHALL PARTICIPATE IN LOCK OUT AND TAG OUT OF WORK BEING PERFORMED BY THE VA OR WE-ENERGIES WHICH MAY IMPACT THE SAFETY OF THE CONTRACTOR'S EMPLOYEES.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF EXISTING EQUIPMENT AS SHOWN ON PLANS.

- BUILDING 11 TRANSFORMER #3 OUTAGE**
- CONTRACTOR SHALL ASSIST VA PERSONNEL IN PERFORMING PROCEDURE TO FEED SWITCHGEAR SG-3EQ FROM SG-1LS UTILIZING EXISTING TEMPORARY CAM-LOC CONNECTIONS. CONTRACTOR SHALL PROVIDE (25) 65' LONG, HIGHLY FLEXIBLE FINELY STRANDED #600KCM OR 2000A EQUIVALENT CONDUCTORS COMPATIBLE WITH EXISTING SYSTEM WITH #3 MALE CAM-LOCKS TO MATCH EXISTING SWITCHGEAR MOUNTED FEMALE CAM-LOCKS. LOCK-OUT AND TAG-OUT MAIN CIRCUIT BREAKER IN SG-3EQ. REFER TO OUTAGE STEPS 1-3 IN CIRCUIT BREAKER POSITION CHART. CONTRACTOR SHALL PROVIDE STORAGE REELS FOR THE TEMPORARY CONDUCTIONS STORAGE. ALL CABLE AND STORAGE EQUIPMENT SHALL BECOME VA PROPERTY AT COMPLETION OF PROJECT.
- PERFORM PROCEDURE TO DISABLE ATS-3EQ. DISCHARGE AND LOCK-OUT AND TAG-OUT EM BREAKER IN ATS-3EQ. LOCK-OUT AND TAG-OUT ATS-3EQ BREAKER IN SG-3N. REFER TO OUTAGE STEPS 4-5 IN CIRCUIT BREAKER POSITION CHART.
  - PERFORM PROCEDURE TO FEED SG-3N SWITCHGEAR THROUGH TIE CIRCUIT BREAKER. LOCATED IN SG-2N AND SG-3N. LOCK-OUT AND TAG-OUT MAIN CIRCUIT BREAKER IN SG-3N. REFER TO OUTAGE STEPS 6-8 IN CIRCUIT BREAKER POSITION CHART.
  - PERFORM PROCEDURE TO FEED FIRE PUMP FROM TRANSFORMER #2. REFER TO OUTAGE STEPS 9-10 IN CIRCUIT BREAKER POSITION CHART.
  - OPEN AND RACK-OUT EXISTING FEEDER CIRCUIT BREAKER IN BUILDING 115. LOCK-OUT AND TAG-OUT. REFER TO OUTAGE STEP 11 IN CIRCUIT BREAKER POSITION CHART.
  - REMOVE EXISTING 15 kV FEEDER FROM PRIMARY SIDE OF TRANSFORMER, TO THE EXISTING SWITCHGEAR IN BUILDING 115.
  - REMOVE EXISTING TRANSFORMER #3 FROM BUILDING 111.
  - PREP SITE FOR NEW TRANSFORMER INSTALLATION.
  - PROVIDE NEW 15 kV FEEDER FROM PRIMARY SIDE OF TRANSFORMER, TO THE EXISTING SWITCHGEAR IN BUILDING 115.
  - INSTALL NEW TRANSFORMER #3 AND ASSOCIATED EQUIPMENT.
  - PERFORM ACCEPTANCE TEST ON NEW TRANSFORMER #3 AND NEW FEEDER.
  - CLOSE EXISTING FEEDER CIRCUIT BREAKER IN BUILDING 115. REFER TO RESTORE STEP 1 IN CIRCUIT BREAKER POSITION CHART.
  - PERFORM PROCEDURE TO FEED FIRE PUMP FROM TRANSFORMER #3. REFER TO RESTORE STEPS 2-3 IN CIRCUIT BREAKER POSITION CHART.
  - PERFORM PROCEDURE TO RETURN SG-3N SWITCHGEAR TO NORMAL OPERATION. REFER TO RESTORE STEPS 4-6 IN CIRCUIT BREAKER POSITION CHART.
  - PERFORM PROCEDURE TO ENABLE ATS-3EQ. REMOVE LOCK-OUT AND TAG-OUT AND CHARGE EM BREAKER IN ATS-3EQ. REFER TO RESTORE STEPS 7-8 IN CIRCUIT BREAKER POSITION CHART.
  - PERFORM PROCEDURE TO RETURN SG-3EQ SWITCHGEAR TO NORMAL OPERATION. REFER TO RESTORE STEPS 9-11 IN CIRCUIT BREAKER POSITION CHART.



**PARTIAL ONELINE POWER DIAGRAM - XFMR 3**  
**NO SCALE**

TRANSFORMER #3 - CIRCUIT BREAKER POSITION CHART																			LOAD CALCULATIONS						
15KV S-E BUS		15KV N-W BUS		480V SG-2N			480V SG-3N			480V SG-3EQ			480V SG-1LS			480V FIRE PUMP		480V ATS-3EQ							
SE-3A		NW-3A		MAIN	TIE	ATS	MAIN	TIE	ATS	MAIN	TIE	CAM-LOC	MAIN	TIE	CAM-LOC	XFMR #2	XFMR #3	ATS-3EQ EM CB					STATUS		
NORMAL		CLOSED	CLOSED	CLOSED	CLOSED	CLOSED	CLOSED	OPEN	CLOSED	OPEN	CLOSED	OPEN	OPEN	CLOSED	OPEN	OPEN	OPEN	CLOSED	OPEN	ENABLED	SG-2N = 827 A (SG-3N) - (SG-3EQ) = 321 A		SG-1N = 533 A SG-3EQ = 919 A		
RESTORE OUTAGE	PHASE 3		CLOSED	OPEN	CLOSED	CLOSE	CLOSED	OPEN	CLOSE	OPEN	OPEN	CLOSE	CLOSED	OPEN	CLOSE	CLOSE	OPEN	OPEN	DISABLED	* LOAD REPRESENTS THE AVERAGE BETWEEN 9/16/2014 & 10/16/2014, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOAD PRIOR TO REPLACEMENT OF TRANSFORMER.			TOTAL LOAD ON SG-2N = 1148 A *    TOTAL LOAD ON SG-1N = 1452 A *		
	STEP #		N/A	11	N/A	6	N/A	7	8	5	2	N/A	3	N/A	N/A	1	10	9	N/A						4
	PHASE 3		CLOSED	CLOSE	CLOSED	OPEN	CLOSED	CLOSE	OPEN	CLOSED	CLOSE	OPEN	OPEN	CLOSED	OPEN	OPEN	OPEN	CLOSE	OPEN						ENABLED
STEP #		N/A	1	N/A	6	N/A	5	4	7	10	N/A	9	N/A	N/A	11	2	3	N/A	8						

**SITE PLAN:**

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**ARCHITECTS + ENGINEERS:**

**Bancroft**  
BANCROFT ARCHITECTS + ENGINEERS  
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**Drawing Title**  
PARTIAL ONELINE DIAGRAM - XFMR 3

**Approved Project Director**

**Project Title**  
CLEMENT J ZABLOCKI  
CHANGE TRANSFORMERS

**Location**  
MILWAUKEE, WI

**Date**  
06-24-2015

**Checked**  
G+L

**Drawn**  
G+L

**Project Number**  
#695-14-140

**Building Number**  
111

**Drawing Number**  
E701.3

**Office of Construction and Facilities Management**

**Department of Veterans Affairs**

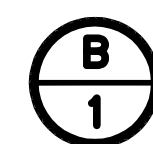
**ISSUED FOR BID AND CONSTRUCTION**



1. LIGHT FIXTURES SHALL BE TEMPORARILY REMOVED AND RE-HUNG BY CONTRACTOR AS NEEDED TO FACILITATE REMOVAL AND PLACEMENT OF TRANSFORMER.





SCALE: 1/2"=1'-0"



**SCALE: 1/2"=1'-0"**

**SITE PLAN:**



**GL** GEIGER + LARSON  
a division of **rtm**

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Jesse Brown Design IDIQ VA69D-14-D-0105  
Bancroft-AE Project No. 14-101-002

Approved: Project Director

Location	MILWAUKEE, WI
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Building Number  
111

Drawing Number

E102

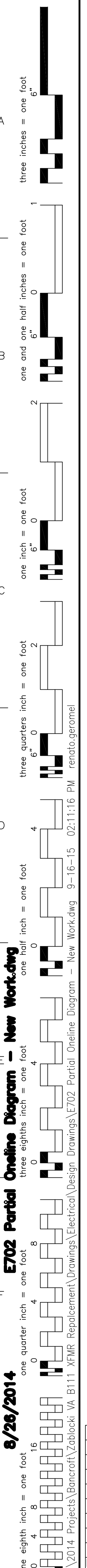
Office of  
Construction  
and Facilities  
Management



DRAWING ISSUED FOR INFORMATION PURPOSES ONLY

ISSUED FOR BID AND CONSTRUCTION






**NO SCALE**

Office of  
Construction  
and Facilities  
Management

 Department of  
Mathematical Sciences

Office of  
Construction  
and Facilities  
Management

 Department of  
Veterans Affairs